

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
 (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PD0309016		FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/CN03/00770	International filing date (day/month/year) 12.Sep.2003(12.9.2003)	Priority date (day/month/year) 13.Sep.2002(13.9.2002)	
International Patent Classification (IPC) or national classification and IPC H04Q7 / 38(IPC7)			
Applicant HUAWEI TECHNOLOGIES CO.,LTD.ETAL			
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>			
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>			
Date of submission of the demand 10.Mar.2004		Date of completion of this report 20.Oct.2004	
Name and mailing address of the IPEA/ 5 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China		Authorized officer	
Facsimile No. No. 86-10-62019451		Telephone No. 86-10-62093342	



Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☒ the international application as originally filed/furnished

- ☐ the description:

pages _____ as originally filed/furnished
pages * _____ received by this Authority on _____
pages * _____ received by this Authority on _____

- ☐ the claims:

pages _____ as originally filed/furnished
pages * _____ as amended (together with any statement) under Article 19
pages * _____ received by this Authority on _____
pages * _____ received by this Authority on _____

- ☐ the drawings:

pages _____ as originally filed/furnished
pages * _____ received by this Authority on _____
pages * _____ received by this Authority on _____

- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement:**

Novelty (N)	Claims 1-12	YES
	Claims	NO
Inventive step (IS)	Claims 1-12	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-12	YES
	Claims	NO

2. Citations and explanations (Rule 70.7)

CA2281041 A1
WO9811751 A1
WO9916272 A1

The invention relate to a technology of routing information optimizing and controlling in the mobile communication system .The independent claim 1 mainly disclose a gateway home location register (GHLR),its characteristic is that it comprised :signaling receiving and transmitting module, safety rule configuration database and information safety analysis module .The independent claim 1 mainly disclose a method of roaming subscriber's routing information exchange,it particularly include subscriber's registering location network GHLR receiving information request ,and in according to the safety rule in the GHLR to determine,if it conform to the safety rule ,transmitting the called information to the network unit that have ability to get the subscriber's information ,and the unit is in the subscriber roaming location network .The claims 1-12 is not to be anticipated by these documents.None of the documents or any relevant combination of them reveals the disclosure described by these claims.

According to the arguments stated above,the invention claimed in claims 1-12 is novel,considered to involve an inventive step and to have industrial applicability,meet all the requirements of Article 33 PCT.

专利合作条约

PCT

专利性国际初步报告

(PCT 第II章)

(PCT 36 和细则 70)

REC'D 18 NOV 2004


WIPO PCT

申请人或代理人的档案号 PD0309016	关于后续行为 参见 PCT/IPEA/416 表	
国际申请号 PCT/CN03/00770	国际申请日(日/月/年) 12. 9 月 2003 (12.9.2003)	优先权日(日/月/年) 13. 9 月 2002 (13.9.2002)
国际专利分类(IPC)或者国家分类和 IPC 两种分类 H04Q7 / 38(IPC7)		
申请人 华为技术有限公司.等		

1. 本报告是国际初步审查单位根据条约 35 做出的国际初步审查报告, 并依照条约 36 将其传送给申请人。
2. 本报告共计 3 页, 包括扉页。
3. ☐ 本报告还有附件,
 - a. ☐ (传送给国际局和申请人)共计 _____ 页, 包含
 - ☐ 修改后的并且作为本报告基础的说明书修改页、权利要求书修改页和/或附图修改页, 和/或对
本国际初步审查单位所做出的更正页(见 PCT 细则 70.16 和行政规程 607)。
 - ☐ 国际初步审查单位认为修改超出原始公开范围的废除页, 参见第 I 栏第 4 项和补充栏。
 - b. ☐ (传送给国际局) 共计 (指明电子载体的类型和数量) _____, 包含有在与序列表有关的补充栏中
指明的计算机可读形式的序列表和/或与其相关的表格。(行政规程 802)

3. 本报告包括关于下列各项的内容:

- I ☒ 报告的基础
- II ☐ 优先权
- III ☐ 不做出关于新颖性、创造性和工业实用性的意见
- IV ☐ 缺乏发明的单一性
- V ☒ 按条约 35(2)关于新颖性、创造性或工业实用性的推断性意见; 支持这种意见的引证和解释
- VI ☐ 引用的某些文件
- VII ☐ 国际申请中的某些缺陷
- VIII ☐ 对国际申请的某些意见

提交要求书的日期 10. 03 月 2004.	完成本报告的日期 20. 10 月 2004
中华人民共和国国际知识产权局 IPEA/CN 中国北京市海淀区西土城路 6 号(100088) 传真号: (86-10) 62019451	授权官员  电话号码 (86-10): 62084567

I. 报告的基础

1. 关于所使用的语言, 除本项下另有说明外, 本书面意见基于的语言为提交本国际申请时所使用的语言。

☐ 本书面意见基于原始语言的使用后述语言之译文 _____,

这种语言是

☐ 为了国际检索而提交的译文所使用的语言(细则 12.3 和 23.1 (b))。

☐ 为了国际申请的公布而提交的译文所使用的语言(细则 12.4)。

☐ 为了国际初步审查而提交的译文所使用的语言(细则55.2和/或55.3)。

2. 关于国际申请中各个部分, 本报告基于(申请人为答复受理局根据条约 14 所发通知而提交的替换页, 在本报告中视为“原始提交”的文件, 不作为本报告的附件)

☒ 原始提交的国际申请。

☐ 说明书, 第 _____ 页 原始提交的, _____ 初审单位收到的, _____ 初审单位收到的。

☐ 权利要求, 第 _____ 页, 原始提交的, _____ 初审单位收到的, _____ 初审单位收到的。

☐ 附图, 第 _____ 页, 原始提交的。第 _____ 页*, _____ 初审单位收到的, 第 _____ 页*, _____ 初审单位收到的。

☐ 序列表和/或相关表格——参见与序列表有关的补充栏。

3. 修改导致以下内容的删除:

☐ 说明书, 第 _____ 页

☐ 权利要求, 第 _____ 项

☐ 附图, 第 _____ 页, 图 _____

☐ 序列表(具体说明) _____

☐ 与序列表相关的表格(具体说明) _____

4. ☐ 由于本报告附件的(某些)修改, 如下所列, 被认为超出了原始公开的范围, 如补充栏所示, 因此本报告是按照没有修改的情况做出的(细则 70.2(c))。

☐ 说明书, 第 _____ 页

☐ 权利要求, 第 _____ 项

☐ 附图, 第 _____ 页, 图 _____

☐ 序列表(具体说明) _____

☐ 与序列表相关的表格(具体说明) _____

*如果第 4 项适用, 一些或全部的文件页可能做出“废除”标记。

V. 按条约 35 (2) 关于新颖性、创造性或工业实用性的推断性意见；支持这种意见的引证和解释

1. 意见

新颖性(N)	权利要求 1-12	是
	权利要求	否
创造性(IS)	权利要求 1-12	是
	权利要求	否
工业实用性(IA)	权利要求 1-12	是
	权利要求	否

2. 引证和解释 (细则 70.7)

CA2281041 A1
WO9811751 A1
WO9916272 A1

本发明涉及移动通信中路由信息优化及控制技术。独立权利要求 1 主要公开了一种关口归属位置寄存器，其主要特征在于它包括了信令收发处理模块、安全规则配置数据库和信息安全分析模块。独立权利要求 10 主要公开了一种游用户路由信息交互方法，其主要包括用户用户注册地网的 GHLR 接收信息请求，并按照 GHLR 内的安全规则进行判断，如果符合 GHLR 内的安全规则，则发送被叫信息给用户漫游地网的具有取得用户信息功能的网元。在国际检索报告中引用的对比文件代表了现有技术。本发明的权利要求 1-12 未被上述对比文件以及其的组合所公开，权利要求所要求保护的关口归属位置寄存器以及游用户路由信息交互方法没有被公开，因此权利要求 1-12 具有新颖性和创造性并且具有实用性符合 PCT 法 33 条的所有规定。